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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference NM 5219-01WO	FOR FURTHER ACTIO	ON See Form P	CT/IPEA/416	
International application No.	International filing date (do	ny/month/year)	Priority date (day/month/year)	
PCT/IB 2002/004002	30.09.2002 🧳		{-	
International Patent Classification (IPC) o	r national classification and	IPC		
H04L 12/56				
Applicant				
Nokia Corporation et	al 🚜			
Hours corporation of				
This report is the international pre Authority under Article 35 and tr			is International Preliminary Examining 36.	
2. This REPORT consists of a total	of 4 sheets, i	ncluding this cover	r sheet,	
3. This report is also accompanied b	y ANNEXES, comprising:			
a. (sent to the applicant	and to the International Bu	reau) a total of	sheets, as follows:	
·			e been amended and are the basis of this report	
and/or sheets			nthority (see Rule 70.16 and Section 607 of the	
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the				
Supplemental Box.				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))				
readable form only, a Administrative Instru	as indicated in the Suppleme	s a sequence listing ental Box Relating t	and/or tables related thereto, in computer to Sequence Listing (see Section 802 of the	
4. This report contains indications r	elating to the following item	is:		
Box No. I Basis of	of the report			
Box No. II Priority	Box No. II Priority			
Box No. III Non-es	stablishment of opinion with	regard to novelty,	inventive step and industrial applicability	
Box No. IV Lack o	f unity of invention			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited				
Box No. VII Certain defects in the international application				
Box No. VIII Certain	observations on the interna	ational application		
Date of submission of the demand		Date of completion	of this report	
	{		report	
01.04.2004	1	20.12.2004	4	
Name and mailing address of the IPEA/SE		Authorized officer		
Patent- och registreringsverket Box 5055				
S-102 42 STOCKHOLM		Stefan Har	nsson /OGU	
Facsimile No. +46 8 667 72 88 Form PCT/IPEA/409 (cover sheet) (January)		Telephone No. +4	6 8 782 25 00	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Internation	pplication No.
ī	

PCT/IB 2002/004002

Box	No. I	Basis of the report
1.	With re	egard to the language, this report is based on the international application in the language in which it was filed, unless ise indicated under this item.
		This report is based on a translation from the original language into the following language, which is the language of a translation furnished for the purposes of:
		international search (under Rules 12.3 and 23.1(b))
		publication of the international application (under Rule 12.4)
		international preliminary examination (under Rules 55.2 and/or 55.3)
2.	furnish	regard to the elements of the international application, this report is based on (replacement sheets which have been hed to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" re not annexed to this report):
ŀ	\boxtimes	the international application as originally filed/furnished
		the description:
İ		pages as originally filed/furnished
		pages* received by this Authority on
		pages* received by this Authority on
		the claims:
Ì		pages as originally filed/furnished pages* as amended (together with any statement) under Article 19
1		pages* received by this Authority on pages* received by this Authority on
Ì		PW8-0
1		the drawings: pages as originally filed/furnished
1		pages as originally incortains near pages* received by this Authority on
1		pages* received by this Authority on
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.		The amendments have resulted in the cancellation of:
1		the description, pages
1		the claims, Nos.
-		the drawings, sheets/figs
1		the sequence listing (specify):
ı		any table(s) related to the sequence listing (specify):
4	. []	This report has been established as if (some of) the amendments annexed to this report and listed below had not bee made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rul 70.2(c)).
		the description, pages
		the claims, Nos.
-		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
	* If ite	em 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Internation plication No.
PCT/IB 2002/004002

Box No. V Reasoned statement u citations and explanat	nder Article 3 tions supporti	5(2) with regard to novelty, inventive step or g such statement	
Novelty (N)	Claims	1-50	YES
Inventive step (IS)	Claims Claims Claims	1-50	YES NO
Industrial applicability (IA)	Claims Claims	1-50	YE NO

2. Citations and explanations (Rule 70.7)

The claimed invention

The claimed invention relates to routing data packets in a compressed-header domain.

The following documents were cited in the International Search Report:

D1: US 5920566 A D2: US 6278709 A D3: WO 02076042 A

D1 discloses a method and system in which a router operates by parsing the header of a received packet, making decisions based on a routing/switching table inside the router, and forwarding the packet with any required header modifications to the next node or end-station. One modification of a header is to simply replace the header.

D2 discloses a routing switch. The method of D2 involves grouping outputs which are suitable for outputting the same message. In the routing network, unicast packets include multiple headers and multicast packets include single headers.

D3 relates to a method for selectively inserting entries into a cache memory in which incoming data packets are directed to output links according to address information.

All the cited references fail to disclose routing in a compressed-header domain. Neither is there any disclosure in the cited references of leaving information contained in the expressed header section unchanged. On the contrary, in both D1 and D2 the header information may very well be modified or even replaced by other information.



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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V.

Consequently, the claimed invention as in claims 1-50 is novel, considered to involve an inventive step and has industrial applicability.

Form PCT/IPEA/409 (Supplemental Box) (January 2004)